PATENT APPLICATION

Antellectual Property Administration

P&O. Box 272400

Fort Collins, Colorado 80527-2400

ATTORNEY DOCKET NO. 100110627-7

## IN THE

Janice H. Nickel et al

Confirmation No.: 8074

Application No.: 10/676414

Examiner: WILSON Christian

Filing Date:

Sep 30, 2003

Group Art Unit: 2824

Title:

Magnetic Memory Element Having Controlled Nucleation Site In Data Layer

Mail Stop Amendment **Commissioner for Patents** PO Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

UNITED STATES PATENT AND TRADEMARK OFFICE

Sir:

This Information Disclosure Statement is submitted:

under 37 CFR 1.97(b), or (Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

- ( ) under 37 CFR 1.97 (c) together with either a:
  - ( ) Statement under 37 CFR 1.97(e), or
  - ( ) a \$180.00 fee under 37 CFR 1.17(p), or

(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

- (X) under 37 CFR 1.97 (d) together with a:
  - (X) Statement under 37 CFR 1.97(e)(1) or (2), and
  - (X) a \$180.00 fee set forth in 37 CFR 1.17(p). (Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$180.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on them PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

on

(X) I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 15 OCT 2004

OR ( ) I hereby certify that this paper is being transmitted to the Patent and Trademark Office

facsimile number Number of pages:

Typed Name:Ramona

Signature:

Rev 10/04 (IDSCERT)

Respectfully submitted,

Janice H. Nickel et al

Brian R. Short

Attorney/Agent for Applicant(s)

Reg. No. 41,309

Date: 15 OCT 2004

Telephone No.: 650.236.4890

0/26/2004 FFRNAIR\$ 00000028 082025

Complete if Known

10/676414

09-30-2003

PTO/SB/08A (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE er the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Filing Date

**Application Number** 

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE

		ADDITIONALE	First Named Inventor	Janice H. Nickel
STATEMENT BY APPLICANT			Art Unit	2824
(Use as many sheets as necessary)		Examiner Name	WILSON, CHRISTIAN	
Sheet 1	of	2	Attorney Docket Number	100110627-7

				T DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (d known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 6,205,051	03-21-2001	Brug et al	
		US-			
		U\$-			
		US-			
•				•	

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages		
	ļ	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sup>6</sup>	

Examiner	Date	
Signature	Considered	
Signature	Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Sinstitute for form 1449/PTO		Complete if Known
	Application Number	10/676414
<b>INFORMATION DISCLOSURE</b>	Filing Date	09-30-2003
STATEMENT BY APPLICANT	First Named Inventor	Janice H. Nickel
(Use as many sheets as necessary)	Art Unit	2824
(Use as many sneets as necessary)	Examiner Name	WILSON, CHRISTIAN
Sheet 2 of 2	Attorney Docket Number	100110627-7

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		MCMICHEAL R D et al: "Domain Wall Traps for Low-field Switching of Submicron Elements: Journal of Applied Physics, American Institute of Physics NY, US vol. 87 no. 9 5-1-2000	
		Semet et al: "Field Electron Emission from Indvidiual Carbon Nanotubes fo a Vertically Aligned Array. Applied Physics letter vol. 80, no.2 July 8 2002 pages 343-345	
-			

Examiner	 Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.